

Date: Thu, 8 Apr 93 16:30:38 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #436
To: Info-Hams

Info-Hams Digest Thu, 8 Apr 93 Volume 93 : Issue 436

Today's Topics:

11m to 10m conversion (or any other bands)
 Additional TH-78A Info
 anyone heard of USA BUREAU?
 Callbook Info Needed
 Need recommendation on tuner
 nj hamfest
 Old Hallicrafters...
 QSL help!
 R2MIR (Shuttle) QSL Route
 Remote control of ATV
 rigs for 70 cm band
 Shuttle Audio broadcast?
 STS-56 Keplerian Elements
 STS-56 Mission Sighting & Keps
 STS56 KEPS JSC006

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 8 Apr 1993 22:06:39 GMT
From: news.Hawaii.Edu!uhunix3.uhcc.Hawaii.Edu!jherman@ames.arpa
Subject: 11m to 10m conversion (or any other bands)
To: info-hams@ucsd.edu

In article <C553B5.4L3@news.cso.uiuc.edu> jtg0707@uxa.cso.uiuc.edu (Jui Tien)
writes:

>

>How easy/hard is it to convert a cb radio to 10m or any ther amateur bands?
>The cb radios I've come across in the local stores seemed very reasonably
>priced. Where do find info on that sort of stuff? Anyone out there on the net
>has done the conversions before?

Good question! I've been wanting to convert one cb to 10M CW and a second to 12M CW. Modifications Please! Also, will the keying circuit be able to survive the rapid keying (well, maybe not too rapid - 15wpm)?

Jeff, NH6IL

Date: 8 Apr 93 22:26:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: Additional TH-78A Info
To: info-hams@ucsd.edu

Here is some additional information on the TH-78A..I did not post it with the earlier posting but it may be of some help.

Use the Answerback feature while in the paging mode...you'll have to follow the procedures for Paging as detailed in the manual. I haven't played with the paging function other than to see that it did work!

The following information was pulled off of Packet, sent by PE1ACG. This posting dealt with the European version TH-78E....Answerback function should be the same.....

"If the transmitter pages a receiver, it does not know whether the receiver has received the paging signal or not. When the Answerback function is ON, the receiver returns a code automatically if the paging code matches to indicate that it has received the paging signal. The transmitter can thus confirm that the code it sent has actually been received."

"If the paging code matches and the busy signal goes low, the receiver returns a code. If the paging code does not match, the receiver does not return a code. The Answerback function is related to the bell function: if you turn the bell function ON when the answerback function is ON, the Answerback functions works; if you turn the bell function OFF, the Answerback function does not work. If the Answerback function is off, only the bell function can be turned ON or OFF. To turn the Answerback function ON and OFF, hold down the MHZ key and switch the POWER ON."

Cloning! The TH-78A can be cloned without cloning cables or special equipment. It is done entirely with RF, and, in fact, can be trans-

mitted over the air, and even via repeaters. This may be extremely useful for those users who do not have the patience to program their own radios themselves. This application would also be useful for clubs and user groups. (However, this can take as long as 50 minutes with the ME-1 expansion module installed. It is recommended that a dummy load be used to prevent unwanted QRM.)

How it's done:

1. Both radios must be on the same frequency.
2. Activate both radios by pressing the "0" key while turning the power on. The radios will display CLONE.
3. Now, click the PTT of the "MASTER" radio. The radio will transmit in the economy low power mode. This may take about 4 minutes for fifty channels. When the data has been transferred, both radios will revert back to the original frequency.
4. Turn both radios off and then on again. They will now operate normally while the slave radio has the same memory contents as the master radio.

THE FOLLOWING INFORMATION WAS ALSO PASSED ON BY RICH - N2CZF -
HOWEVER HE STATES THAT HE HAD NOT TRIED THE MODIFICATION...SO...

"Frequency Expansion: You can receive from 340-399.987 Mhz FM by removing chip diode D8 on the CONTROL UNIT. To access this function press the F key for one second, then the LOW key. This toggles between AMATEUR, AIR band (AM) and 360 Mhz. AM and FM modes are selected automatically, depending on frequency."

Extended RX/TX. I think I pretty much covered "what and how" in my posting. If there is something there that you don't quite understand then I'll be glad to try and help you thru that.

A few NOTES worth mentioning:

1. Program scan cannot be performed over bands. It can only be performed within each band.
2. You cannot change the band in MR and CALL modes.
3. The AIR band frequency range is shown below. It is contiguous in the VHF amateur band frequency range.

"Step.....5,10,15,20,12.5, 25 Khz"

"Frequency Range...50.000 - 135.995 Mhz"

4. The initial step is the same as the VHF amateur band step.
5. If the AIR band is received as the UHF subband, FM reception is performed.
6. The step is the same as the VHF band step.

There it is....that's all I have....all of this information came either off of E-Mail or Packet. I performed the "mods" mentioned in my earlier posting (Diodes D4 and D5)....I cannot guarantee that all this information is "the gospel"....check around...ask questions of others using the TH-78A....there are folks out there who will "feed" you "mods" that can "KILL" that sweet little 78A....fortunately I have not ran across them yet...if you've already done the two mods you then you realize that they were "good" ones...the D8 mentioned above I'am not sure of.....soooooo....GOOD LUCK and Enjoy!

73's...Roger/N5IFH

Date: Thu, 8 Apr 1993 20:19:06 GMT
From: sdd.hp.com!col.hp.com!news.dtc.hp.com!srngenprp!alanb@decwrl.dec.com
Subject: anyone heard of USA BUREAU?
To: info-hams@ucsd.edu

Dale Mosby (dale@sequent.com) wrote:

: I receieved a post card at our club PO box yestereday requesting that
: club members be told about the "QSL BUREAU FOR THE USA". This is the
: first I have heard of this, ...

Yes, our club got one too. They must have sent them to all clubs listed in the Callbook.

: Has anyone heard of this? Anyone used it? It seems to me that this
: would take a dedicated team of volunteers (much like the DX QSL bureau)
: to really work.

I was assuming that they pay the postage for sending out cards.
I also assume it is to be a profit-making operation. At 4 cents per card, they will need to send at least 8 cards in each envelope to make a profit. That will only work if they get a large enough volume

of users. Perhaps they will also mail advertising to help improve the profit margin.

One possible problem: They are in some sense competing with the US Postal Service. There may be some legal problems with Postal Service regulations. (USPS is a government-mandated monopoly.)

AL N1AL

Date: Thu, 8 Apr 1993 21:23:14 GMT
From: news.claremont.edu!ucivax!news.service.uci.edu!ttinews!harley!
paulb@uunet.uu.net
Subject: Callbook Info Needed
To: info-hams@ucsd.edu

In article <1993Apr5.224434.587@ttinews.tti.com> paulb@harley.tti.com (Paul Blumstein) writes:

+I worked KN5BN near tulsa recently. I generally use the on-line
+call book for address info since I do not need callbook info
+often. However, the on-line one has calls thru around 6/92 and
+this call just missed that deadline, so I am pretty sure that
+he is in the '93 callbook.

+

+Bottom line: Would some kind soul with a '93 callbook please
+send me this guys name & address so that I can send him a qsl
+card? Thanks, in advance.

Disregard part of what I said. I suffered a temporary mind lapse.
I meant KJ5BN . TIA

You're not having fun until they dial 911 -- (from a t-shirt)

Paul Blumstein, paulb@harley.tti.com, DoD #36, ABATE, AMA, HOG, doh #2
KD6LAA, MARC, ARRL, Platypus #240, QRP-ARPCI, NASWA, LWCA, RCMA (CALA905)
Transaction Technology, Inc., Santa Monica, CA

Date: 8 Apr 93 19:41:54 GMT
From: spool.mu.edu!torn!watserv2.uwaterloo.ca!watserv1!rnelson@decwrl.dec.com
Subject: Need recommendation on tuner
To: info-hams@ucsd.edu

I am in need of an external tuner and have found a couple on our local swap net. It is important that it handle over 1000 watts and have a swr/power meter that is large and very visible. I am visually impaired.

The 2 tuners are the

MFJ989C

and

MT3000A by Dentron

I have no knowledge of these and would appreciate any help. Please
send e-mail if you can help me out.

73

Randy, VE3WRN

--

Randy Nelson VE3WRN	Ontario Representative	rnelson@watserve1.uwaterloo.ca
197A Cedarvale Cr.	Disability Information	..uunet!watmath!watserve1!rnelson
WATERLOO, ON	Services of Canada.	rnelson@watserve1.waterloo.edu
N2L 4T3	(519)884-2989 (Voice and TDD)	VE3WRN @ VE3EUK.ON.CAN.NA

Date: 5 Apr 93 20:08:58 GMT

From: dog.ee.lbl.gov!hellgate.utah.edu!cs.utexas.edu!zaphod.mps.ohio-state.edu!
howland.reston.ans.net!bogus.sura.net!udel!news.intercon.com!psinnntp!internet!sbi!
pivot-sts!canada!jerrys@network.

Subject: nj hamfest

To: info-hams@ucsd.edu

1993 ANNUAL SPRING HAMFEST

sponsored by

Bergen Amateur Radio Association (B.A.R.A.)

Saturday June 5, 1993

8:00 AM till 2:00 PM

Rain or Shine

To be held at:

FARLEIGH DICKINSON UNIVERSITY

Teaneck, New Jersey

Featuring

Amateur Testing
Novice thru extra
8:00 AM to 10:00 AM Only
Exam information - contact Pete K2MHP (201) 796-6622
(No calls after 10 PM)

Bring Original FCC License and a photo-copy
VEC charge \$5.25

Food and Snacks

\$2.00 ADMISSION

.Children under 12 FREE
.Lots of Parking
.Rest Room Facilities
.Refreshments

Vendor Space

.\$10 outdoor tailgating per space

Talk-in on 146.19/79 & 146.52 simplex

For vending space reservations and Hamfest Information -
contact Jim Joyce K2Z0 (201) 664-6725
(No calls after 10 PM)
286 Ridgewood Blvd. No.
Washington Twp., N.J. 07675

Directions:

From the West....

Take Garden State Parkway to exit 161 (Route 4 EAST).
Take route 4 East to RIVER ROAD - FARLEIGH DICKINSON exit.
follow signs to parking area.

From NYC

Take George Washington Bridge to N.J.
take Route 4 West to RIVER ROAD - FARLEIGH DICKINSON exit.
follow signs to parking area.

--

Jerry Simonowits
Salomon Inc.

Internet Planning
Systems Engineering

Date: Thu, 8 Apr 1993 18:41:22 GMT
From: dog.ee.lbl.gov!hellgate.utah.edu!cs.utexas.edu!csc.ti.com!tilde.csc.ti.com!
m2.dseg.ti.com!ernest!cmptrc!mitch@network.UCSD.EDU
Subject: Old Hallicrafters...
To: info-hams@ucsd.edu

I just recieved in the mail a transmitter/receiver matched pair of
old Hallicrafters. Unfortunately the manuals with them do not have any kind
of date. Does anybody know how old the old HT-46 and SX146 transmitter/receivers
are?

Got a lot of restore work ahead of me on the reciever.. time to clean out the
rust. Gonna have it on the air eventually!

Thanks!
Mitcheal
KA5SOI
(tech+ upgrading to general and beyond!)
//

Date: 8 Apr 93 22:25:35 GMT
From: ogicse!emory!wupost!howland.reston.ans.net!noc.near.net!lynx!
lkay@network.UCSD.EDU
Subject: QSL help!
To: info-hams@ucsd.edu

Can anyone help me with an updated QTH for

OE3DSA (via OE1DSA)

I worked him in '92 CQWW CW, QSLed direct,
and it was returned marked 'moved'. However,
the '93 DX book shows him at same address.

I can wait for the 93 supplement I guess, but
does anyone have a QTH? I need OE on 80 and 10.

73 Tnx,

Len


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-----  
Dr. Leonard Kay, KB2R          | "But we are not dealing with the  
Electrical and Computer Engineering | normal world. We are chasing DX."  
Northeastern University, Boston | -- W9KNI, 'The Complete DXer'  
NU ARC: W1KBN 145.31(-)        |  
Packet: KB2R@K1EA              | #include <disclaimer.h>  
-----
```

```
-----  
Date: Thu, 8 Apr 1993 23:04:28 GMT  
From: sdd.hp.com!hpscit.sc.hp.com!news.dtc.hp.com!srngenprp!alanb@decwrl.dec.com  
Subject: R2MIR (Shuttle) QSL Route  
To: info-hams@ucsd.edu
```

What's the QSL route for the Russian space station R2MIR?

AL N1AL

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Date: 8 Apr 93 19:00:02 GMT  
From: olivea!gossip.pyramid.com!pyramid!pyrtech.mis.pyramid.com!andrem@ames.arpa  
Subject: Remote control of ATV  
To: info-hams@ucsd.edu
```

I'm posting this to rec.radio.amateur.misc and rec.radio.amateur.policy as I'm not sure which group would be best. My apologies if it's inappropriate for either group.

I have a question regarding the ATV transmissions and whether or not they can legally be controlled remotely. I'm a member of the Nor-Cal Shelby club, and am hoping to set up an in-car camera at one of the upcoming open-track events. I will not be the driver of the car, and was wondering if it would be legal to have a camera broadcasting from a car that didn't have a licensed amateur in it as long as I retained control remotely.

The idea is to give those of us hanging out in the paddock area a view of what's going on out on the track. This would be just for fun, and in no way involved in the actual business of running of the event. I would like to set up a control link so that I could switch the transmitter on-and-off via 220 or 440. Is there any legal way to do this? Or do I need to make sure there's a licensed ham both in the car and at the receiving end?

This thing's gonna be harder to pull off if I have to get some

drivers licensed or make them carry a passenger if we're going to transmit. Although it could be more fun for a few hams who would get to go along for the ride...

If anyone could point me to ther relevant portion of the rules and help provide some interpretation, it would be a great help.

Thanks

```
+-----+
| Andre Molyneux   KA7WVW   "Insert your favorite disclaimer here" |
+-----+
|      -===== PYRAMID TECHNOLOGY CORP |Internet:          |
|      -===== 3860 N. First Street    | andrem@pyramid.com    |
|      -===== San Jose, CA 95134      |Packet:              |
|-----===== (408) 428-8229          | ka7wvv@n0ary.#nocal.ca.usa.na |
+-----+
```

Date: 5 Apr 93 17:28:30 CDT
From: timbuk.cray.com!hemlock.cray.com!cherry10!dadams@uunet.uu.net
Subject: rigs for 70 cm band
To: info-hams@ucsd.edu

While thumbing through my latest AES catalog, I notice that several of the rigs advertized which operate on 70 cm offer the capability to transmit on 440-450 MHz. (Example Alinco DJ-580T handheld, DR-599T 2m/70cm mobile. Or on 438-450. (Example Kenwood TH-78A, TH-48A, TH-46AT.)

But I notice that the 70 cm band goes from 420-450 MHz. Why don't these comercial rigs cover the band? Does most of 70 cm go unused? Why?

On other rigs advertised, I could not find any information about what sub portions of the band were covered.

--David C. Adams Statistician Cray Research Inc. dadams@cray.com

Old Sourdoughs never die. They just ferment away.

Date: 8 Apr 1993 14:54:44 -0700
From: sdd.hp.com!nobody@decwrl.dec.com
Subject: Shuttle Audio broadcast?

To: info-hams@ucsd.edu

(Hopefully limited to San Diego distribution...)

Is the Shuttle audio being broadcast in the San Diego area? Does anyone know what frequency?

Replies in email, please. I will post answers to sdnet distribution.

Thanks!

--

Craig Bosworth (619) 592-8609
Hewlett-Packard, San Diego Division
craigb@sdd.hp.com

Date: 8 Apr 93 20:02:22 GMT
From: news-mail-gateway@ucsd.edu
Subject: STS-56 Keplerian Elements
To: info-hams@ucsd.edu

SB SAREX@AMSAT \$STS-56.005
STS-56 Keplerian Element Set GSFC-005

Enclosed is the latest Keplerian data for STS-56 as generated by Ron Parise, WA4SIR at the Goddard Space Flight Center

STS-56

1	22621U	93	23	A	93	98.60251678	0.00059346	00000-0	17143-3	0	58
2	22621		57.0034	177.2023	0006554	270.2978	89.7348	15.92542168			70

Satellite: STS-56

Catalog number: 22621

Epoch time: 93098.60251678 (08 APR 93 14:27:37.45 UTC)

Element set: GSFC-005

Inclination: 57.0034 deg

RA of node: 177.2023 deg Space Shuttle Flight STS-56

Eccentricity: 0.0006554 Keplerian Elements

Arg of perigee: 270.2978 deg

Mean anomaly: 89.7348 deg

Mean motion: 15.92542168 rev/day Semi-major Axis: 6673.3039 Km

Decay rate: 0.59E-03 rev/day*2 Apogee Alt: 299.29 Km

Epoch rev: 7 Perigee Alt: 290.54 Km

NOTE - This element set is based on NORAD element set # 005.

The spacecraft has been propagated to the next ascending node, and the orbit number has been adjusted to bring it into agreement with the NASA numbering convention.

Submitted by Frank H. Bauer, KA3HDO for the SAREX working group
E-mail: ka3hdo@amsat.org
Alt E-mail: abfhhb@stdvax.gsfc.nasa.gov

/EX

Date: 8 Apr 93 11:39:40 CDT
From: timbuk.cray.com!hemlock.cray.com!cherry10!dadams@uunet.uu.net
Subject: STS-56 Mission Sighting & Keps
To: info-hams@ucsd.edu

In article AA17582@east.gsfc.nasa.gov, abfhhb@stdvax.DNET.NASA.GOV () writes:
|The STS-56 ATLAS-2 mission will carry out atmospheric investigations
|of the Earth's Ozone layer during the planned 9 day flight. Also,
|on-board as a seconadry payload is the Shuttle Amateur Radio
|Experiment (SAREX). SAREX allows school groups and amateur radio
|operators to talk to the Shuttle Crew while they are on orbit.
|

So what must a school group or amateur radio operator do in order to talk to the shuttle crew?

--David C. Adams Statistician Cray Research Inc. dadams@cray.com

Old Sourdoughs never die. They just ferment away.

Date: 8 Apr 93 11:47:00 GMT
From: twwells!pics!james.mollica@rutgers.rutgers.edu
Subject: STS56 KEPS JSC006
To: info-hams@ucsd.edu

STS-56 elements for April 8 launch

The next launch attempt for STS-56 will be on Thursday morning, April 8.
The Thursday launch window opens at 05:29 UTC.

STS-56
1 00056U 93 98.28867013 .00055200 000000-0 16200-3 0 68

2 00056 57.0020 178.6504 0011289 286.7156 73.2672 15.91759473 24

Satellite: STS-56

Catalog number: 00056

Epoch time: 93098.28867013 = (8 APR 93 06:55:41.10 UTC)

Element set: JSC-006

Inclination: 57.0020 deg

RA of node: 178.6504 deg Space Shuttle Flight STS-56

Eccentricity: .0011289 Prelaunch Keplerian Elements

Arg of perigee: 286.7156 deg Launch: 8 APR 93 05:29 UTC

Mean anomaly: 73.2672 deg

Mean motion: 15.91759473 rev/day G. L. Carman

Decay rate: 5.52000e-04 rev/day~2 NASA Johnson Space Center

Epoch rev: 2

G.L.CARMAN

SPACELINK NOTE: The following State Vectors were issued for the April 6 launch date. They have not been updated at this time, but we have chosen to leave them on the system until the updated set is released.

STS-56 PREDICTED FLIGHT DAY 1 VECTOR

STS-56
FLIGHT DAY 1 STATE VECTOR (PREDICTED)
ON ORBIT OPERATIONS
(Posted 04/05/93 by Roger Simpson)

The following vector for the flight of STS-56 is provided by NASA Johnson Space Center, Flight Design and Dynamics Division for use in ground track plotting programs. The vector represents the predicted trajectory of Discovery during on orbit operations, after the OMS-2 maneuver. The vector assumes an on time launch. Questions regarding these postings may be addressed to Roger Simpson, Mail Code DM4, L. B. J. Space Center, Houston, Texas 77058, Telephone (713) 483-1928.

Lift off Time : 1993/096/05:32:00.000

Lift off Date : 04/06/93

Vector Time (GMT) : 096/06:11:37.730

Vector Time (MET) : 000/00:39:37.730

Orbit Count : 1

Weight : 226210.0 LBS
Drag Coefficient : 2.00
Drag Area : 1250.0 SQ FT

M50 Elements			Keplerian Elements		
X	=	21625753.7 FT	A	=	3606.8795 NM
Y	=	-2634617.3 FT	E	=	0.000769
Z	=	2232596.4 FT	I (M50)	=	57.03115 DEG
Xdot	=	3832.167081 FT/S	Wp (M50)	=	155.44198 DEG
Ydot	=	13509.654128 FT/S	RAAN (M50)	=	176.86540 DEG
Zdot	=	-21119.722462 FT/S	/ N (True)	=	17.57853 DEG
		Anomalies	\ M (Mean)	=	17.55193 DEG
			Ha	=	161.0500 NM
			Hp	=	159.3600 NM

Mean of 1950 (M50) : Inertial, right-handed Cartesian system whose
Coordinate System origin is the center of the earth. The epoch
is the beginning of the Besselian year 1950.
X axis: Mean vernal equinox of epoch
Z axis: Earth's mean rotational axis of epoch
Y axis: Completes right-hand system

A:	Semi-major axis	N:	True anomaly
E:	Eccentricity	M:	Mean anomaly
I:	Inclination	Ha:	Height of apogee
Wp:	Argument of perigee	Hp:	Height of perigee
RAAN:	Right ascension of ascending node		

Jim N2NRD

* 1st 1.10b #1439 * * CONNECTED * YOUR SAREX QSO # IS *** !

+-----+
| Pics OnLine MultiUser System (609)753-2540 HST 609-753-1549 (V32) |
| Massive File Collection - Over 45,000 Files OnLine - 250 Newsgroups |
+-----+

Date: Thu, 8 Apr 1993 20:14:38 GMT
From: news.Hawaii.Edu!uhunix3.uhcc.Hawaii.Edu!jherman@ames.arpa
To: info-hams@ucsd.edu

References <9303302139.AA09642@ucsd.edu>, <1993Apr1.225218.21618@pixar.com>,
<1993Apr4.131905.10441@loretta.la.ca.us>
Subject : Re: Language and History (Was: Re: ARRL living in the past?)

Why not let the female hams decide if the CW term XYL is offensive or not;
I haven't read any negative comments yet on the net from any of them - only
some males (although from what's been posted lately on here, it seems that
a few males have a desire to be females...)

Jeff NH6IL

End of Info-Hams Digest V93 #436
